

#### Goals

- Develop or identify common denominators suitable for transportation safety measurement
- Should be usable within and across various transportation modes

### Scope

- Limited to evaluation of exposure measures suitable for transportation safety evaluations
- Includes crashes, incidents and injuries to occupants and/or workers

# Develop Common Denominators for Safety Measures

### **Modes Considered**

- Aviation
  - General aviation
  - Air carrier
- Highway
  - Passenger car
  - Trucks
  - Transit services
  - Bicycles

- Rail
  - Passenger and freight
  - Transit systems employing rail
- Maritime
  - Commercial
  - Recreational
- Pipeline

## General Approach

- Exposure measures currently used identified
- Limitations and gaps of current environment identified, by mode and by type of activity

# Develop Common Denominators for Safety Measures

## General Approach

- Recommendations developed to correct for limitations and gaps
- Recommendations for exposure measures suitable for intra- and intermode comparisons developed
- Approaches for implementing findings and recommendations developed

### **General Recommendation 1**

- General aviation activity survey should be expanded to collect information on:
  - Number of aircraft occupants
  - Trip length, miles
  - Amount of freight carried
  - Hours on duty for professional pilots

# Develop Common Denominators for Safety Measures

### General Recommendation 2

- A process needs to be developed to capture information from commercial marine operators that would include:
  - Trip length, miles
  - Trip length, time
  - Number of occupants including crew
  - Hours on duty for crewmembers

#### **General Recommendation 3**

- Highway data collection systems (HPMS, VIUS, NHTS, etc.) should be reviewed to determine accuracy of estimates currently provided.
- Accurate estimates are needed for:
- Trip length in distance and time
- Number of vehicle occupants
- Total number of trucks operated by commercial operators
- Hours on duty for professional drivers

# Develop Common Denominators for Safety Measures

#### General Recommendation 4

- An ongoing and systematic survey should be undertaken to collect information from recreation and boat operators on:
  - Total number of occupants per trip
  - Trip length in time and distance
  - Type and size of boat (sailboat, power, etc.)
  - Number of hours underway compared to time at anchor

#### General Recommendation 5

- The National Household Transportation Survey (NHTS) should be conducted more frequently (every two years) to improve timeliness of information. It should also be modified to collect information on:
  - Recreational use of transportation
    - Trip length and distance where applicable
    - Number of occupants
    - Transportation mode used for recreation

# Develop Common Denominators for Safety Measures

### General Recommendation 6

The U.S. Department of Transportation should work with State and local authorities to develop a central repository of vehicle operator demographic information derived from operator licenses and other sources. This information should be collected for operators of highway vehicles and transit system vehicles.